

EUROfusion PSD Management Meeting

WPSA report 2024-10-5

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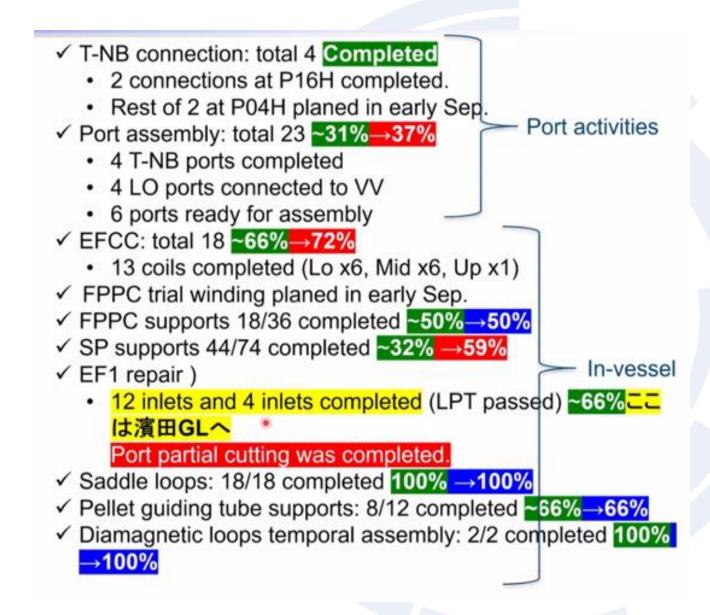
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WPSA news: machine status

- ME1 shutdown advancing well
 - Tangential NB connection- completed
 - Saddle loops completed
 - Diamagnetic loops completed
 - Acceptance test of divertor cryopumps completed



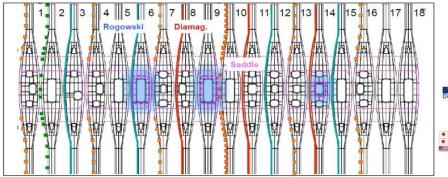


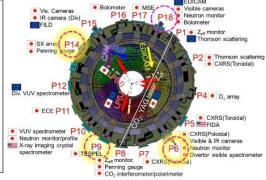
WPSA news: enhancements

- Doppler reflectometry
 - Agreement CIEMAT-NIFS for a combined proposal
 - 3 toroidal accesses to allow
 - Toroidal correlation
 - Absolute density measurement
 - Detailed feasibility starting
- TPCI: design review completed
 - It is possible and desirable to install and commission in M/E-1 => depending on availability of support for integration in QST
 - Hiring of dedicated staff (EPFL and NIFS) being started
- Thomson Scattering system
 - Acceptance of last components: in December 24.
 - Laser maintenance with visit in Naka of the supplier and TS team in January 25

New proposals of microwave reflectometer ports

• 3 ports (P9, P6(or 18), P14) are feasible to use.





1	Antenna (plan)	Port	Reflectometer system	Target parameter		
า	① steerable	9	V- & W-band, O- & X-mode	$\widetilde{n_e}$, V_{\perp} (core/edge)		correlation
	② steerable	6 (18)	V- & W-band, O/X-mode	$\widetilde{n_e}$, V_{\perp} (core/edge)		core/edge
			Q- & V-band, O/X-mode	$\widetilde{n_e}$, V_{\perp} (edge/SOL)		correlation
	3 fixed	14	Q- & V-band, O/X-mode (V- & W-band, O/X-mode)	$\widetilde{n_e}$, V_{\perp} & $n_e(r)$ (edge/SOL)	_}	edge/SOL



WPSA news: Meetings

- Technical Coordination Meeting (TCM-42)
 - Hosted by RFX in Padua 25-28 Nov https://indico.cern.ch/event/1460357/
 - Agenda not yet available
 - Focus on diagnostics
 - Discussion on W transition
- WPSA planning meeting
 - Hosted by CREATE in Naples 4-6 Dec https://create.unina.it/wpsa/
 - Agenda nearly completed, sessions on
 - WPSA activities
 - Report on JT-60SA ET (WPTE)
 - Preparation of transition to W